

(11) Publication number: **0 512 748 A3**

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 92303892.1

(51) Int. Cl.⁵: **H04N 9/64**, **H04N 9/66**,
H04N 5/60

(22) Date of filing: 30.04.92

(30) Priority: 03.05.91 GB 9109617

(43) Date of publication of application:
11.11.92 Bulletin 92/46

(64) Designated Contracting States:
AT DE ES FR GB IT NL SE

(68) Date of deferred publication of search report:
14.07.93 Bulletin 93/28

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(54) Method and apparatus for signal processing.

(57) A digital demodulator for a NICAM 728 system signal has sampling and digitizing means converting the signal into a succession of digital samples. The digital samples pass through an anti-aliasing digital comb filter to a selector (decimator) that selects one sample in three and feeds it to a second digital filter. Digital matched filters for the in-phase (I) and quadrature (Q) components of the signal effect the demodulation. Carrier and symbols tracking is carried out digitally. A pulse-width modulated automatic gain control signal is produced for controlling the amplitude of the signal applied to the sampling and digitizing means.

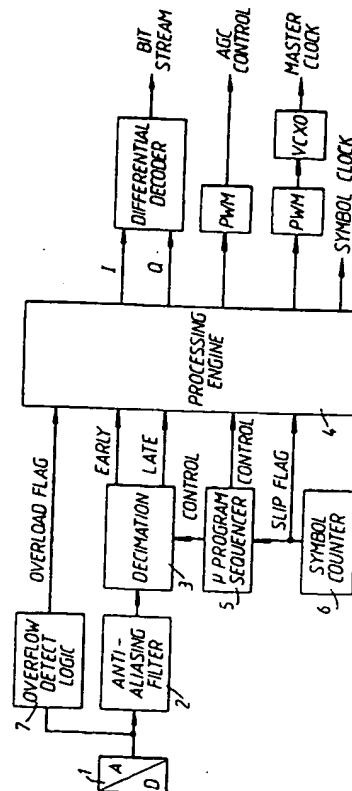


Fig.1.

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11 MAY 1993	Examiner HOEKSTRA A.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>A : member of the same patent family, corresponding document</p>			

EPO FORM 150 (12.92) (P0001)



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Place of search THE HAGUE		Date of completion of the search 11 MAY 1993	Examiner HOEKSTRA A.
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EPO FORM 1501 01.82 (P0401)